



NOTES:
 All known oil & gas wells within 3,000' of the proposed location are shown hereon.
 The bearings and distances shown hereon are based on the West Virginia State Plane Coordinate System, South Zone NAD '27.

West Virginia State Plane Coordinates for Loc. No. 19
 N 404,060.34 : E 1,573,164.59

FILE NO. 5010 WW
 DRAWING NO. 19WW6
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 57,351
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM "51RHP"
Elev. = 1025.634 NGVD '29

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Ronald L. Eastham
 R.P.E. _____ L.L.S. 150

RONALD L. EASTHAM
 LICENSED
 No. 150
 STATE OF
 WEST VIRGINIA
 LAND SURVEYOR
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV

DATE December 16, 2000
 OPERATOR'S WELL NO. 19
 API WELL NO. 47-099-02042
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1118.69 WATER SHED Hurricane Branch of the West Fork of Twelvepole Creek
 DISTRICT Lincoln COUNTY Wayne
 QUADRANGLE Radnor

SURFACE OWNER Pat H. Napier (D.B. 351, Pg. 350) ACREAGE 25 (T.M. 1, Par. 45)
 OIL & GAS ROYALTY OWNER Columbia Natural Resources, Inc. LEASE ACREAGE 5000
 LEASE NO. 47-11205

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 5-0 353

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Big Six ESTIMATED DEPTH 4240
 WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT John Abshire
 ADDRESS 900 Lee Street East, Suite 500 ADDRESS 900 Lee Street East, Suite 500
Charleston, WV 25301 Charleston, WV 25301

FORM WW-6 EASTHAM & ASSOCIATES

COUNTY NAME WAYNE PERMIT 2042

DEEP well

Date: July 17, 2001
API # 47-099-02042

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Handwritten initials

Farm name: Pat H. Napier Operator Well No.: CNR #19

LOCATION: Elevation: 1119' Quadrangle: Radnor
District: Lincoln County: Wayne
Latitude: 9,000' feet South of 38° DEG. 07' MIN. 30" SEC.
Longitude: 7,210' feet West of 82° DEG. 27' MIN. 30" SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"		42'	
9 5/8"		840'	330 sks
7"		1923'	330 sks
PLUGGED AND ABANDONED @ TD			

Agent: John Abshire
Inspector: Dave Belcher
Permit Issued: 4/18/01
Well Work Commenced: 6/25/01
Well Work Completed: 7/04/01
Verbal Plugging: YES
Permission granted on: 7/03/01
Rotary Cable _____
Total Depth (feet): 4240'
Fresh Water Depths (ft): 132', 188', 280', 560'
Salt Water Depths (ft): 1180', 1220', 1450', 1477'
Is coal being mined in area (Y / N)? _____
Coal Depths (ft): 549'-553', 632'-635', 701'-704'

OPEN FLOW DATA

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure after _____ Hours

RECEIVED
Office of Oil & Gas Permitting
AUG 22 2001
WV Department of Environmental Protection

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION AUG 24 2001

By: *Ray Prudnick, Jr.* Operations Manager
Date: 8/21/01

MAY 2042

FORMATION	TOP	BOTTOM	REMARKS
Breathitt Fm	Surface	1080	
Lee Fm (Salt Sand)	1080	1295	
Sand & Shale	1295	1530	
Red Rock	1530	1540	
Sand & Shale	1540	1558	
Little Lime	1558	1583	
Big Lime	1583	1740	
Injun	1740	1880	
Sand & Shale	1880	2389	
Berea	2389	2444	
Devonian Shale	2444	3420	
Corniferous Lime	3420	4100	
Big Six	4100	4111	
Sand & Shale	4111	4240 TD	

